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Jul 22, 1991

DERWENT-ACC-NO: 1992-355279

DERWENT-WEEK: 199243

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TITLE: Refining gold@ and silver@ from composite ores - involves mixing ore with flux composed of sodium hydroxide, potassium nitrate, calcium oxide, borax, silica, sodium sulphate, etc.

INVENTOR: BANG, S H

PATENT-ASSIGNEE:

ASSIGNEE

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PRIORITY-DATA: 1988KR-0010533 (August 19, 1988)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>KR 9105056 B</u>	July 22, 1991		000	C22B011/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
KR 9105056B	August 19, 1988	1988KR-0010533	

INT-CL (IPC): C22B 11/00

RELATED-ACC-NO: 1992-355280

ABSTRACTED-PUB-NO: KR 9105056B

BASIC-ABSTRACT:

The method for refining of Au and Ag from ore comprises (1) mixing it with a flux (ore:1000, NaOH:200-300, KNO3:30-50, Zn-Cu alloy powder (or PbO):150-250, CaO:300-400, NaHCO3:280-320, Borax:80-150, C:40-60, flourite: 100- 200, silica:100-150, Na2SO4 or NaSO3.7H2O or Na2S:80-150 (in wt.%); (2) melting it at 1800-2000 deg.C and separating by maintaining melts for 90-100 min; (3) after remelting and quenching, thus obtained granular metal is dissolved by nitrohydrochloric acid and AgCl is pptd. by air cooling for 24 hrs. This is followed by filtering AgCl from the soln. which is neutralised with urea or H2O2, then precipitating Au by air cooling of the neutralised soln. projected by Na2SO3.7H2O, and purifying Au and Ag p.p.t. by ZnO and H2SO4; (4) roasting a mixture of Au, Ag and fluorite to 5% of each metal at 780-820 deg.C, and (5) refining of Au and Ag with flux (Borax:35, NaHCO3:35-45, silica:15-20, C(purity:99.0-99.7%):5-6, in wt.%, when metal is 100 wt.%) by melting at 1000-1200 deg.C in a crucible

TITLE-TERMS: REFINE GOLD@ SILVER@ COMPOSITE ORE MIX ORE FLUX COMPOSE SODIUM HYDROXIDE POTASSIUM NITRATE CALCIUM OXIDE BORAX SILICA SODIUM SULPHATE

DERWENT-CLASS: M25

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